PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 78340-A-PCT	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.		
International application No.	International filing date (day/mo			
PCT/US 08/11913	17 October 2008 (17.10.2008)	19 October 2007 (19.10.2007)		
Applicant THE TRUSTEES OF COLUMBIA UNIVER				
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.				
This international search report consists of a total of sheets.				
1. Basis of the report				
a. With regard to the language, the international search was carried out on the basis of:				
the international application in the language in which it was filed.				
a translation of the international application into which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).				
b. This international search report has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).				
c. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. 1.				
2. Certain claims were found unsearchable (see Box No. II).				
3. Unity of invention is lacking (see Box No. III).				
4. With regard to the title,				
the text is approved as submitted by the applicant.				
the text has been established by this Authority to read as follows:				
·				
5. With regard to the abstract,				
the text is approved as su	bmitted by the applicant.			
1 =	12 . 4- Dula 29 2(b) by	this Authority as it appears in Box No. IV. The applicant national search report, submit comments to this Authority.		
6. With regard to the drawings,				
a. the figure of the drawings to be published with the abstract is Figure No. 1				
as suggested by the applicant.				
as selected by this Authority, because the applicant failed to suggest a figure.				
as selected by this Authority, because this figure better characterizes the invention.				
h. none of the figures is to	be published with the abstract.			

Form PCT/ISA/210 (first sheet) (April 2007)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 08/11913

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1. Claims Nos.: hecause they relate to subject matter not required to be searched by this Authority, namely:			
Claims Nos.: 27 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: Claim 27 Is an improper omnibus claim, not drafted in accordance with Rule 6.2.			
3. Claims Nos.: 5-8, 10-12, 17-20 and 22-24 hecause they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows:			
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.			
2. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.			
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark on Protest The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation. No protest accompanied the payment of additional search fees.			

Form PCT/ISA/210 (continuation of first sheet (2)) (April 2007)

INTERNATIONAL SEARCH REPORT

International application No. PCT/US 08/11913

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - C12Q 1/68; C12N 9/22; A61K 31/70 (2009.01) USPC - 435/6, 199; 514/44					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by 435/6, 199; 514/44, 435/69.1, 91,2, 287.2, 320.1; 536/23.1, 23.2, 25	r classification symbols) 5.32; 544/230				
Documentation searched other than minimum documentation to the ex	xtent that such documents are included in the	lields searched			
Electronic data base consulted during the international search (name of Dialog (Chinese Patents Abs., JAPIO, EUROPEAN PATENTS, PC Inpadoc/Fam.& Legal Stat, Derwent), Google Search Terms Used: nucleic acid sequencing, nucleotide, ddntp, drtcep, photolabile, primer,	T FULLTEXT, French Patents, US Patents i	-unlext ,US PAT.FULL.			
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
	Citation of document, with indication, where appropriate, of the relevant passages				
X US 2007/0166705 A1 (Milton et al.) 19 July 2007 (19.	28-34				
Y -[0119], [0123], [0136], [0142]-[0145], [0147], [0186],	[0040], [0042], [0045], [0068], [0077], [0087]-[0088], [0095], [0097], [0107]-[0110], [0115], [0118]-[0119], [0123], [0136], [0142]-[0145], [0147], [0186], [0189]; Fig 1, 3, 5-6				
US 7,078,499 B2 (Odedra et al) 18 July 2006 (18.07.2006) col 6, ln 1-5; col 3, ln 1-20		1-4, 9, 13-16, 21, 25-26, 35-59			
Further documents are listed in the continuation of Box C.					
Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand to be of particular relevance "E" earlier application or patent but published on or after the international filing date. "T" document defining the general state of the art which is not considered to be of particular relevance. "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone.					
cited to establish the publication date of another citation or our special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or oth means	document of particular relevance; the considered to involve an inventive combined with one or more other such being obvious to a person skilled in the	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art			
"P" document published prior to the international filing date but later than "&" document member of the same patent family the priority date claimed					
Date of the actual completion of the international search 15 January 2009 (15.01.2009)	3 0 JAN 2009				
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3701	Authorized officer: Che W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774	tr			